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Aug 29, 2000

US-PAT-NO: 6111081  
DOCUMENT-IDENTIFIER: US 6111081 A

TITLE: Lactoferrin variants and uses thereof

DATE-ISSUED: August 29, 2000

## INVENTOR-INFORMATION:

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Ward; Pauline P.	Houston	TX	N/A	N/A

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APPL-NO: 8/ 866544  
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## PARENT-CASE:

The present application is a United States utility application based upon U.S. provisional application Ser. No. 60/018,747 filed on May 31, 1996.

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## REF-CITED:

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4016100</u>	April 1977	Suzuki et al.	252/316
<input type="checkbox"/> <u>4289690</u>	September 1981	Pestka et al.	530/351
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<input type="checkbox"/> <u>4370349</u>	January 1983	Evans et al.	434/365
<input type="checkbox"/> <u>4372949</u>	February 1983	Kodama et al.	424/199
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<input type="checkbox"/> <u>4740461</u>	April 1988	Kaufman	435/68
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<input type="checkbox"/> <u>5571619</u>	November 1996	McAlphin et al.	428/364
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<input type="checkbox"/> <u>5571896</u>	November 1996	Conneely et al.	530/400

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FOREIGN-PAT-NO	PUBN-DATE	COUNTRY
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ART-UNIT: 162

PRIMARY-EXAMINER: Achutamurthy; Ponnathapura

ASSISTANT-EXAMINER: Moore; William W.

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ABSTRACT:

The present invention is directed to recombinant nucleic acids encoding lactoferrin variants and portions thereof, having modified iron-binding capacity, and to vectors comprising same recombinant nucleic acids. The present invention is further directed to methods of producing such vectors, and to transfected cells harboring the same. Methods for the production of lactoferrin variants and portions thereof, in various eukaryotic or prokaryotic cells are also provided.

Finally, the invention is directed to lactoferrin variants and portions thereof encoded by the nucleic acids of the invention and produced by the processes of the invention. Thus, the invention provides an efficient and economical means for the production of recombinant lactoferrin variants and portions thereof.

15 Claims, 4 Drawing figures